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1. (Amended) A system for sensing alternator current levels, the combination comprising:

- an operational amplifier having an input and an output;
- an input resistor connecting the input to a signal indicative of an alternator current level;
- a feedback resistor connected between the input and the output;
- an adjustment resistor and a switching element coupled in series between the input and the output, in parallel with the feedback resistor; and
- a processor coupled to the output and being operable, based upon a current indication related to a level of alternator current indicated at the output, to control the operation of the switching element such that the switching element is closed when the current indication increases to exceed a first threshold, and such that the switching element is opened when the current indication decreases to fall below a second threshold, wherein the signal indicative of the alternator current level provided to the input resistor and the level of alternator current indicated at the output are related by a first gain when the switching element is closed and are related by a second gain when the switching element is opened.
